(12) **United States Patent**
 Mathew

(10) **Patent No.: US 11,003,723 B2**
(45) **Date of Patent: May 11, 2021**

(54) **SYSTEM AND METHOD TO ACQUIRE DATA FROM DEEP WEB**

(71) Applicant: **Marlabs Innovations Private Limited,** Bengaluru (IN)

(72) Inventor: **Bimodh Jo Mathew**, Piscataway, NJ (US)

(73) Assignee: **Marlabs Innovations Private Limited,** Bangalore (IN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/108,340**

(22) Filed: **Aug. 22, 2018**

(65) **Prior Publication Data**

US 2020/0065419 A1   Feb. 27, 2020

(51) **Int. Cl.**
 G06F 16/951   (2019.01)
 G06F 9/455   (2018.01)
         (Continued)

(52) **U.S. Cl.**
 CPC **G06F 16/951** (2019.01); **G06F 9/45558** (2013.01); **G06F 16/1824** (2019.01); **H04L 12/4641** (2013.01); **G06F 2009/45595** (2013.01)

(58) **Field of Classification Search**
 CPC H04L 12/1831; H04L 65/4015; G06F 16/9024; G06F 16/35; G06F 17/16; G06N 5/04
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

9,009,814 B1*	4/2015	Wertz	G06F 21/36 726/18
2002/0049687 A1*	4/2002	Helsper	H04L 41/147 706/45

(Continued)

FOREIGN PATENT DOCUMENTS

CN	107808000 A	11/2017
KR	101852107 B1	11/2017

OTHER PUBLICATIONS

How to Access the Deep Web | Complete Guide (https://www.deepwebsiteslinks.com/how-to-access-the-deep-web/ Viewed on May 6, 2018).

(Continued)

Primary Examiner — Clayton R Williams
Assistant Examiner — Tania M Pena-Santana
(74) *Attorney, Agent, or Firm* — Jason C. Cameron

(57)   **ABSTRACT**

System and method to acquire data from a deep web are provided. The system includes a processing subsystem. The processing subsystem includes a local virtual private network module configured to create at least one first virtual private network within a router. The system also includes a cloud virtual private network (VPN) module configured to create a plurality of second virtual private networks based on the at least one first virtual private network. The plurality of second virtual private networks is configured to enable an access to the deep web. The system also includes a plurality of virtual computing devices configured to access the deep web by one or more crawlers based on one or more parameters and to acquire the data from the deep web based on the one or more parameters. The system also includes a storage device configured to store the data acquired from the deep web.

8 Claims, 3 Drawing Sheets